

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson L1-01

KW 6/26/07
INITIAL/DATE

COMMENTS:

SDG 07-A-3304

SAF-RC-040

Rad only

X Chem only

Rad & Chem

X Complete

Partial

Sample Location/Waste Site: 321 Steam Lines

RECEIVED
JUL 10 2007

EDMC



6/26/07
Page 1 of 5

SUBMITTED TO:


Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J155R3 through J155V1
P.O. No.:	Not Available
Sample Location:	321 Steam Lines
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-3304
DCL Sample ID No.:	07-18825 through 07-18840
Sample Receipt Date:	6/19/07
Analysis Date:	6/25/07 through 6/26/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3708
513 733-5338, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 321 Steam Lines
Set ID: 07-A-3304

Client Sample ID:	J155R3	J155R4	J155R5	J155R9	J155T0
DCL Sample ID:	07-18825	07-18826	07-18827	07-18828	07-18829
Macroscopic Examination					
Accepted/Rejected:	Accepted	Rejected	Accepted	Accepted	Accepted
Homogeneity:	Homog.		Homog.	Homog.	Homog.
Color:	Grey		Grey	Grey	Grey
Texture:	Pwdry/Fbrs		Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs
Description:	Material		Material	Material	Material
Analysis:	PLM		PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>5 ≤ 10		>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Amosite:	>10 ≤ 20		>10 ≤ 20	>10 ≤ 20	>10 ≤ 20
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>15 ≤ 30		>15 ≤ 30	>15 ≤ 30	>15 ≤ 30
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:				>3 ≤ 5	
% Resin/Binder:					
% Non Fibrous:	>60 ≤ 70		>60 ≤ 70	>60 ≤ 70	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available. Sample number J155R4 was rejected due to insufficient amount of material for analysis. Sample container submitted did not contain any material.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 321 Steam Lines
Set ID: 07-A-3304

Client Sample ID:	J155T1	J155T2	J155T3	J155T4	J155T5
DCL Sample ID:	07-18830	07-18831	07-18832	07-18833	07-18834
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey/Black	Grey	Grey	Grey	Grey
Texture:	Pwdry/Resn/Fbrs	Fbrs/Pwdry	Fbrs/Pwdry	Fbrs/Pwdry	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>10 ≤ 20				>5 ≤ 10
% Amosite:	>3 ≤ 5	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>10 ≤ 20
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>13 ≤ 25	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>15 ≤ 30
Other Materials					
% Cellulose:					
% Fiberglass:					
% Other Fibers:			>1 ≤ 3		
% Resin/Binder:	>20 ≤ 30				
% Non Fibrous:	>40 ≤ 50	>30 ≤ 40	>30 ≤ 40	>30 ≤ 40	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

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6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 321 Steam Lines
Set ID: 07-A-3304

Client Sample ID:	J155T6	J155T7	J155T8	J155T9	J155V0
DCL Sample ID:	07-18835	07-18836	07-18837	07-18838	07-18839
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Pwdry/Fbrs	Pwdry/Fbrs	Crumbly	Pwdry/Fbrs	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>5 ≤ 10	>5 ≤ 10		>5 ≤ 10	>5 ≤ 10
% Amosite:	>10 ≤ 20	>10 ≤ 20		>10 ≤ 20	>10 ≤ 20
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>15 ≤ 30	>15 ≤ 30	ND	>15 ≤ 30	>15 ≤ 30
Other Materials					
% Cellulose:					
% Fiberglass:			>3 ≤ 5		
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>60 ≤ 70	>60 ≤ 70	>90 ≤ 100	>60 ≤ 70	>60 ≤ 70

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

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6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 321 Steam Lines
Set ID: 07-A-3304

Client Sample ID:	J155V1
DCL Sample ID:	07-18840

Macroscopic Examination

Accepted/Rejected:	Accepted
Homogeneity:	Homog.
Color:	Grey
Texture:	Pwdry/Fbrs
Description:	Material
Analysis:	PLM

Asbestiform Minerals

% Chrysotile:	$>5 \leq 10$
% Amosite:	$>10 \leq 20$
% Crocidolite:	
% Tremolite - Actinolite:	
% Anthophyllite:	
% Total Asbestos:	$>15 \leq 30$

Other Materials

% Cellulose:	
% Fiberglass:	
% Other Fibers:	

% Resin/Binder:	
% Non Fibrous:	$>60 \leq 70$

ND = None Detected Trace = $<1\%$

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-307		Page 1 of 6	
Collector Mike Stankovich		Company Contact Rence Nielson		Telephone No. 430-3466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 321 Steam Lines		SAF No. RC-040					
Ice Chest No. <i>MED</i> <i>301807 Small FED EX BOX</i>		Field Logbook No. EL-1518-8		COA See below		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. <i>NA 301807 A070299</i>		Bill of Lading/Air Bill No. <i>NA 301807 See OPR</i>					
POSSIBLE SAMPLE HAZARDS/REMARKS <i>Asbestos</i> <div style="font-size: 2em; margin: 10px 0;">07-A-3304</div> Special Handling and/or Storage				Preservation		None			
				Type of Container		GP			
				No. of Container(s)		1			
				Volume		5g			
SAMPLE ANALYSIS				Asbestos-BULK-EPA					
Sample No. <i>07-</i>		Matrix *		Sample Date		Sample Time			
J155R3		8825		OTHER SOLID		6/13/07		1230 X	
J155R4		8826		OTHER SOLID				1235 X	
J155R5		8827		OTHER SOLID				1240 X	
J155R9		8828		OTHER SOLID				1245 X	
J155T0		8829		OTHER SOLID				1250 X	
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R3746A0 1300 Sampler unavailable to relinquish samples from 3728 Ref # <i>3A</i> . 3728 Custodian removed samples for shipping on <i>6/13/07</i> .	
<i>MTA M Stankovich</i>		<i>6/13/07 1500</i>		<i>3728/3A</i>		<i>6/13/07 1500</i>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>3728/3A</i>		<i>6-18-07 1000</i>		<i>MTA Stankovich</i>		<i>6-18-07 1000</i>			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
<i>MTA Stankovich</i>		<i>6-18-07 1500</i>		<i>FED EX</i>					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil AS=Air DS=Drum Solids DL=Drum Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
		<i>MTA Stankovich</i>				<i>6/19/07 1034</i>			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-307		Page 2 of 6	
Collector Mike Stankovich		Company Contact Renee Nielson		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 321 Steam Lines		SAF No. RC-040					
Ice Chest No. MED FED EX MED FED EX		Field Logbook No. EL-1518-8		COA See below		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati 6-18-07		Offsite Property No. NA 8-6-07 A070279		Bill of Lading/Air Bill No. NA 6-18-07 See O5PC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage 3304		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS				Asbestos-BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time			
J155T1		8830		OTHER SOLID		6/13/07		1255 X	
J155T2		8831		OTHER SOLID		1200		X	
J155T3		8832		OTHER SOLID		1305		X	
J155T4		8833		OTHER SOLID		1310		X	
J155T5		8834		OTHER SOLID		1315		X	
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R3746A0 1300 Sampler unavailable to relinquish samples from 3728 Ref # 3A 3728 Custodian removed samples for shipping on 6-18-07	
MS Stankovich		6/13/07 1500		3728/3A		6/13/07 1500			
3728/3A		6-18-07 1000		MS Stankovich		6-18-07 1000			
MS Stankovich		6-18-07 1004 4500		FED EX					
MS Stankovich		6-18-07 1004 4500		MS Stankovich		6/19/07 1034			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W = Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-307		Page 2 of 6																																																																																																															
Collector Mike Stankovich		Company Contact Renee Nielson		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days																																																																																																															
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 321 Steam Lines		SAF No. RC-040																																																																																																																			
Ice Chest No. MED FED EX BOX		Field Logbook No. EL-1518-8		COA See below		Method of Shipment Fed Ex																																																																																																																	
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. NA 361807 A070299		Bill of Lading/Air Bill No. NA 361807 Sea OSA																																																																																																																			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos 3304 Special Handling and/or Storage					Preservation		None																																																																																																																
					Type of Container		G/P																																																																																																																
					No. of Container(s)		1																																																																																																																
					Volume		5g																																																																																																																
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J155T8 8837		OTHER SOLID		↓		1330		X																																																																																																															
J155T9 8838		OTHER SOLID		↓		1415		X																																																																																																															
J155V0 8839		OTHER SOLID		↓		1420		X																																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4">CHAIN OF POSSESSION</td> <td colspan="4">Sign/Print Names</td> <td colspan="2" rowspan="6"> SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R3746A0 1300 Sampler unavailable to relinquish samples from 3728 Ref # 3A. 3728 Custodian removed samples for shipping on 6/18/07. </td> <td colspan="2" rowspan="6"> Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other </td> </tr> <tr> <td colspan="2">Relinquished By/Removed From</td> <td colspan="2">Date/Time</td> <td colspan="2">Received By/Stored In</td> <td colspan="2">Date/Time</td> </tr> <tr> <td colspan="2">Mike Stankovich</td> <td colspan="2">6/13/07 1500</td> <td colspan="2">3728/3A</td> <td colspan="2">6/13/07 1500</td> </tr> <tr> <td colspan="2">3728/3A</td> <td colspan="2">6-18-07 1000</td> <td colspan="2">Mike Stankovich</td> <td colspan="2">6-18-07 1000</td> </tr> <tr> <td colspan="2">Mike Stankovich</td> <td colspan="2">6-18-07 1500</td> <td colspan="2">FED EX</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Relinquished By/Removed From</td> <td colspan="2">Date/Time</td> <td colspan="2">Received By/Stored In</td> <td colspan="2">Date/Time</td> </tr> <tr> <td colspan="2">Relinquished By/Removed From</td> <td colspan="2">Date/Time</td> <td colspan="2">Received By/Stored In</td> <td colspan="2">Date/Time</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Relinquished By/Removed From</td> <td colspan="2">Date/Time</td> <td colspan="2">Received By/Stored In</td> <td colspan="2">Date/Time</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">Relinquished By/Removed From</td> <td colspan="2">Date/Time</td> <td colspan="2">Received By/Stored In</td> <td colspan="2">Date/Time</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="2">LABORATORY SECTION</td> <td colspan="2">Received By</td> <td colspan="2">Title</td> <td colspan="2">Date/Time</td> <td colspan="3"></td> </tr> <tr> <td colspan="2">FINAL SAMPLE DISPOSITION</td> <td colspan="2">Disposal Method</td> <td colspan="2">Disposed By</td> <td colspan="2">Date/Time</td> <td colspan="3"></td> </tr> </table>										CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R3746A0 1300 Sampler unavailable to relinquish samples from 3728 Ref # 3A. 3728 Custodian removed samples for shipping on 6/18/07.		Matrix * S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue WI=Wipe L=Liquid V=Vegetation X=Other		Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Mike Stankovich		6/13/07 1500		3728/3A		6/13/07 1500		3728/3A		6-18-07 1000		Mike Stankovich		6-18-07 1000		Mike Stankovich		6-18-07 1500		FED EX				Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time						Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time						Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time						LABORATORY SECTION		Received By		Title		Date/Time					FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time				
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Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-307		Page 4 of 6	
Collector Mike Stankovich		Company Contact Renee Nielson		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 321 Steam Lines		SAF No. RC-040					
Ice Chest No. FED MED EX BOX		Field Logbook No. EL-1518-8		COA See below		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. NA 6-18-07		A070239		Bill of Lading/Air Bill No. NA 6-18-07			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos		Preservation		None					
Special Handling and/or Storage 3304		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS		Asbestos-BULK-EPA							
Sample No.	Matrix *	Sample Date	Sample Time						
J155V1	8840	OTHER SOLID	6/13/07 1425	X					
J155V2		OTHER SOLID							
J155V3		OTHER SOLID							
J155V4		OTHER SOLID							
J155V5		OTHER SOLID							
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2P00	
MS Stankovich		6/13/07 1500		3728/3A		6/13/07 1500		Sampling COA - R3746A0 1300	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Sampler unavailable to relinquish samples from 3728 Ref # 3A	
3728/3A		6-18-07 1000		MS Stankovich		6-18-07 1000		3728 Custodian removed samples for shipping on 6/18/07	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
MS Stankovich		6-18-07 1500		FED EX		6/19/07 1034			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION	Received By		Title		Date/Time				
	Lorelli				6/19/07 1034				
FINAL SAMPLE DISPOSITION	Disposal Method		Disposed By		Date/Time				